

=> d his 141-160

(FILE 'CASREACT' ENTERED AT 16:34:51 ON 25 JUL 2001)

FILE 'HCAPLUS' ENTERED AT 16:48:27 ON 25 JUL 2001

L41 3941 S JONES C?/AU
L42 270 S TALBOT R?/AU
L43 9 S L41 AND L42
SELECT RN L43 1-9 ←

FILE 'REGISTRY' ENTERED AT 16:50:15 ON 25 JUL 2001

L44 92 S E19-110

FILE 'HCAPLUS' ENTERED AT 16:51:40 ON 25 JUL 2001

L45 9 S L44 AND L43 ← b:h abs h: + STR

FILE 'REGISTRY' ENTERED AT 17:03:59 ON 25 JUL 2001

L46 58208 S "PHOSPHONO"
L47 4839 S L46 AND PMS/CI
L48 0 S L47 AND "POLYCARBOXYLIC"
L49 3 S "POLYCARBOXYLIC"
L50 1911 S L46 AND "CARBOXYLIC"
L51 156 S L50 AND PMS/CI
L52 0 S L51 AND NC=1

nc = # of component

FILE 'HCAPLUS' ENTERED AT 17:13:52 ON 25 JUL 2001

L53 2647 S ?PENETRANT?
L54 60 S L53(L)?PHOSPHO?
L55 320182 S ?MICROB?
L56 1 S L54 AND L55
L57 902 S ?PHOSPHONO?(5A)?CARBOXYL?
L58 0 S L57 AND L53
L59 16 S L57 AND L55
L60 1 S L57 AND LEATHER

=> d bib abs hitstr

L60 ANSWER 1 OF 1 HCAPLUS /COPYRIGHT 2001 ACS
 AN 1983:524410 HCAPLUS
 DN 99:124410
 TI Pigment preparations for colored dressing agents for **leather** and **leather** substitutes
 IN Kolb, Guenter; Tork, Leo; Hoehne, Wolfgang
 PA Bayer A.-G. , Fed. Rep. Ger.
 SO Ger. Offen., 23 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3203817	A1	19830811	DE 1982-3203817	19820204
	US 4510302	A	19850409	US 1983-459006	19830118
	EP 86354	A2	19830824	EP 1983-100585	19830124
	EP 86354	A3	19831214		
	EP 86354	B1	19850417		
	R: CH, DE, FR, GB, IT, LI, NL				
	JP 58134156	A2	19830810	JP 1983-13002	19830131
	JP 03072107	B4	19911115		
	BR 8300541	A	19831108	BR 1983-541	19830203
	ES 519503	A1	19840316	ES 1983-519503	19830203
PRAI	DE 1982-3203817		19820204		

AB Pigment binders for **leather** finishes comprise a copolymer of an acrylate 10-40, a methacrylate 10-40, N-vinylpyrrolidone 10-30, acrylic acid 5-15, and a vinyl ester 10-20% prepd. in a H2O-miscible org. solvent in the presence of a regulator and a peroxy compd. or a radical-yielding azo compd. Thus, to a mixt. of 17.5 kg glycol monoethyl ether and 17.5 kg ethylene glycol at 90.degree. was added over 4 h a mixt. of Et acrylate 8.75, Me methacrylate 10.5, N-vinylpyrrolidone 7.0, acrylic acid 3.5, vinyl acetate 5.25, 2-mercaptoethanol 0.35, and AIBN 0.7 kg, and the mixt. was heated 2 h at 90.degree. to give 70 kg of 50% polymer (I) [85721-79-5] soln. I soln. 5, H2O 15.6, ethylene glycol 3, 2-phosphonobutane-1,2,4-tricarboxylic acid 1, 25% NH4OH 1.5, TiO2 pigment 65, pyrogenic silicic acid 0.2, and preservation agent 0.05 kg were mixed 15 min at 200 rpm, and the mixt. was dild. with 8.35 kg H2O and defoamed with 0.4 kg tri-n-Bu phosphate at 800 rpm. The pigment paste was well dispersed, flowable, and storage-stable and had a pH of 9.0-9.5. A white **leather** finish was prepd. by mixing the pigment paste 200,H2O 400, 40% acrylic polymer binder 250, and 35% butadiene rubber binder 150 g to give a sprayable finish for either buffed or full-grain **leathers**.

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L60 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS
 IC C09B067-42; C09B067-20; C09C003-10; C14C011-00; C09D003-81
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 Section cross-reference(s): 38, 41
 ST acrylic polymer binder **leather** finish; ethyl acrylate copolymer **leather** finish; methyl methacrylate copolymer **leather** finish; vinyl acetate copolymer **leather** finish; vinylpyrrolidone copolymer **leather** finish
 IT **Leather**
 Leather substitutes
 (finishes for, acrylic polymer pigment binders for)
 IT Acrylic polymers, uses and miscellaneous
 RL: USES (Uses)
 (pigment binders, for **leather** finishes)
 IT 85721-79-5 87150-69-4 87150-70-7
 RL: USES (Uses)
 (pigment binders, for **leather** finishes)

=> d bib abs 4,9-10,12,13,15-16

L59 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 AN 2000:122837 HCAPLUS
 DN 132:141597
 TI The use of ozone as **microbiocide** in cooling water treatment - experiences with an "all-organic" program
 AU Noks, Eduard; Olkis, Anton; Kleinstuck, Roland; Johnson, Donald A.
 CS Germany
 SO PowerPlant Chem. (1999), 1(4), 36-40, 69-73
 CODEN: POCHFT; ISSN: 1438-5325
 PB PowerPlant Chemistry GmbH
 DT Journal
 LA English/German
 AB Biofouling prevention in cooling water system using ozonization in combination with org. phosphonates is described.
 RE.CNT 9
 RE
 (1) Anon; Nalco TRA-CIDER Diagnostics for Advanced Biomanagement, Brochure E-50-E 1997
 (2) Burda, P; NACE Corrosion/93 Paper No 488 1993
 (3) Coppinger, D; Cooling Tower Institute Annual Meeting 1989
 (4) Johnson, D; US 5415783 HCAPLUS
 (8) Strittmatter, R; Ozone Science and Engineering 1993, V15, P47 HCAPLUS
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 AN 1997:346771 HCAPLUS
 DN 126:318712
 TI Acid **antimicrobial** cleaning composition for removing lime and other deposits
 IN Ritter, Guenter
 PA Ritter, Guenter, Germany
 SO Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19536353	A1	19970403	DE 1995-19536353	19950929
AB	The title compn., suitable for removing deposits and hygienically cleaning household, industrial, and personal items, comprises one or more anionic surfactants and an acid system contg. (alone or in combination) Al3+ salt, Fe3+ salt, inorg. acids, and/or org. acids. The cleaning compns. can be used for cleaning other than smooth surfaces, are nontoxic, and leave no residue. Thus, an aq. clear cleaning soln. comprised 5-20% Al sulfate and 0.02-15% Na lauryl sulfate.				

L59 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 AN 1995:671716 HCAPLUS
 DN 123:138365
 TI Studies on the biosynthesis of fosfomycin
 AU Hidaka, T.; Kuzuyama, T.; Seto, H.
 CS Institute Molecular and Cellular Biosciences, University Tokyo, Japan
 SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1994), 36th, 181-7
 CODEN: TYKYDS
 DT Journal
 LA Japanese
 AB Through biosynthetic studies on fosfomycin using *Streptomyces wedmorensis*, its biosynthetic pathway was shown to consist of 4 steps: (1) intramol. rearrangement of phosphoenolpyruvate to phosphonopyruvic acid (PnPy) catalyzed by phosphoenolpyruvate phosphomutase, (2) **decarboxylation** of PnPy to generate **phosphonoacetaldehyde** (PnAA), (3) methylation of PnAA to provide 2-hydroxypropylphosphonic acid (HPP), and (4) epoxide formation to form the final product. It should be emphasized that the epoxide is formed by dehydrogenation of the alc. function of HPP and that unlike usual epoxidn., the mol. oxygen is not incorporated into fosfomycin. In addn., the genes responsible for the biosynthesis of fosfomycin which were clustered in an .apprx.11.0-kb

fragment on the chromosome were cloned. The nucleotide sequence of the fragment revealed the presence of 10 open reading frames including 4 biosynthetic genes and 2 resistance genes.

L59 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1991:566332 HCAPLUS

DN 115:166332

TI Cooling water treatment composition

IN Soeder, Kenneth; Helfeld, Mitchel

PA Jamestown Chemical Co., Inc., USA

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5034155	A	19910723	US 1990-475931	19900206
AB	The title compn. comprises (a) Na molybdate as a corrosion inhibitor >1, (b) benzotriazole as a corrosion inhibitor >1, (c) citric acid as an Fe dispersant >0.5, (d) a microbiocide , e.g., tris(hydroxymethyl)nitromethane, glutaraldehyde, or 2,2-dibromo-3-nitrilopropionamide >5, and (e) optionally a scale inhibitor, e.g., ethyl acrylate-maleic anhydride-vinyl acetate copolymer, or 2- phosphono -1,2,4- butanetricarboxylic acid, >0.25%, and the balance water.				

L59 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1988:535017 HCAPLUS

DN 109:135017

TI Cleaning and disinfectant solutions for endoscopes

IN Disch, Karlheinz; Hachmann, Klaus; Bansemir, Klaus

PA Henkel K.-G.a.A., Fed. Rep. Ger.

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3639322	A1	19880526	DE 1986-3639322	19861117
	DE 3639322	C2	19890817		
	IN 170219	A	19920229	IN 1987-MA535	19870727
	DK 8705940	A	19880518	DK 1987-5940	19871112
	DK 164799	B	19920824		
	DK 164799	C	19930111		
	EP 268227	A2	19880525	EP 1987-116781	19871113
	EP 268227	A3	19891220		
	EP 268227	B1	19990113		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 175577	E	19990115	AT 1987-116781	19871113
	ES 2127715	T3	19990501	ES 1987-116781	19871113
	FI 8705049	A	19880518	FI 1987-5049	19871116
	FI 96576	B	19960415		
	FI 96576	C	19960725		
	NO 8704768	A	19880518	NO 1987-4768	19871116
	NO 170873	B	19920914		
	NO 170873	C	19921223		
	AU 8781235	A1	19880519	AU 1987-81235	19871116
	AU 601515	B2	19900913		
	BR 8706157	A	19880621	BR 1987-6157	19871116
	ZA 8708576	A	19880727	ZA 1987-8576	19871116
	JP 63135123	A2	19880607	JP 1987-291641	19871117
	JP 2575422	B2	19970122		
	US 4784790	A	19881115	US 1987-121492	19871117
	CA 1304029	A1	19920623	CA 1987-552063	19871117
	US 4994200	A	19910219	US 1988-224506	19880726
	AU 9065567	A1	19910131	AU 1990-65567	19901026
	AU 625166	B2	19920702		
	US 5223166	A	19930629	US 1990-618144	19901126
PRAI	DE 1986-3639322		19861117		

- US 1987-121492 19871117
US 1988-224506 19880726
- AB A cleaning soln. contains .gtoreq.1 nonionic surfactants, .gtoreq.1 proteolytic enzymes, .gtoreq.1 conventional cleaners at pH 6-8. A disinfectant soln. contains .gtoreq.1 aliph. C2-8 dialdehydes and a complexing agent at pH 6-8. Endoscopes are cleaned and disinfected by treating the surface 1st with the above cleaning soln. at 55-65.degree. for 1-15 min and then with the above disinfectant soln. for 1-15 min at 55-65.degree.. A cleaning conc. contained ethoxylated C12-18 alkyl n-Bu ether 8, Alcalase 1, glycerol 6, 1,2-propylene glycol 3, Na gluconate 2.5, citric acid 2, Na cumene sulfonate 3, 4-HOC6H4CO2Me, and H2O to 100 parts by wt.; the pH of this mixt. was 5. A disinfectant soln. contained glutaraldehyde 20, phosphonobutanetricarboxylic acid 1, EtOH 8, and H2O to 100 parts by wt.; the pH of this mixt. was 4. The concn. was dild. to contain 0.45 g/L surfactant, 0.06 g/L enzyme, and 0.14 g/L Na gluconate and the disinfectant was dild. to contain 2.4 g/L glutaraldehyde and 0.12 g/L phosphonobutanetricarboxylic acid. A gastroscope was heated to 60.degree. and flushed with the cleaning soln. at that temp. for 10 min and then flushed with the disinfectant for 10 min. The gastroscope was contaminated with a soln. contg. 108 **microbes**/mL *Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Prote mirabilis*, and *Candida albicans*, it was cleaned as above, and incubated for 72 h at 36.degree., and after that time the instrument was free of **microbes**.
- L59 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2001 ACS
AN 1983:517315 HCAPLUS
DN 99:117315
TI Methods and results obtained from the toxicological and ecological tests of water treatment chemicals
AU Kaestner, Werner; Gode, Peter
CS Toxikol. Oekol. Lab., Henkel K.-G.a.A., Duesseldorf, 4000/1, Fed. Rep. Ger.
SO Z. Wasser Abwasser Forsch. (1983), 16(2), 39-47
CODEN: ZWABAQ; ISSN: 0044-3727
DT Journal
LA German
AB Compds. and formulations used as corrosion inhibitors, dispersing agents, hardness stabilizers, and biocides in circulating cooling and process waters and in air conditioning installations were evaluated for toxicol. and ecol. risks in use. Hydroxyethanediphosphonic acid [2809-21-4], aminotrimethylenephosphonic acid [6419-19-8], and 2-phosphonobutane-1,2,4-tricarboxylic acid [37971-36-1] are essentially nontoxic to aquatic organisms (algae, *Daphnia*, and fish), as well as the **microbiocides** dodeca [86438-44-0] and chloroisothiazoline [87051-49-8] and the corrosion inhibitor ZnCl2. A monocyclic substituted oxazolidine **microbiocide** was less toxic than the other **microbiocides**, and a acrylic acid-methacrylic acid polymer [25751-21-7] dispersing agent was less toxic than the phosphonic acid compds. Six com. treatment mixts. (5 were irritants and 1 was corrosive to skin and all were irritants and were corrosive to the eye) were evaluated ecol. based on concns. used, whether used in open or closed systems, and added continuously or batch wise. The biocide-contg. products have limited biodegradability.
- L59 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2001 ACS
AN 1978:411928 HCAPLUS
DN 89:11928
TI **Antimicrobial** agents for industrial water
IN Kotone, Akira; Yasuda, Masahiro
PA Sakai Chemical Industry Co., Ltd., Sakai, Japan
SO Japan. Kokai, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1
- | | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 52139724 | A2 | 19771121 | JP 1976-16408 | 19760216 |
| | JP 59000483 | B4 | 19840107 | | |

AB **Antimicrobial** agents for industrial water contain imidazolium compds. and tetra-Na 2-phosphonobutane-1,2,4-tricarboxylate (I) [66669-53-2]. Thus, an **antimicrobial** agent contg. 1-dodecyl-2-methyl-3-benzylimidazolium chloride [21054-72-8] and I (1:2 ratio) 10 ppm was added to water a circulation-type cooling water system, and after 1-h circulation a water sample was cultivated on an agar medium. No microorganism growth was obsd., compared to 5 .times. 106 of microorganisms when the agent was not added.

=> d ind 4

L59 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 CC 61-8 (Water)
 ST cooling water biofouling control ozonization org phosphonate
 IT Water purification
 (biofouling control; biofouling prevention in cooling water system by
 ozonization and org. phosphonates)
 IT Water purification
 (ozonization; biofouling prevention in cooling water system by
 ozonization and org. phosphonates)
 IT 2809-21-4, 1-Hydroxyethane-1,1-diphosphonic acid 6419-19-8,
 Amino-tris-methylene-phosphonic acid 37971-36-1, 2-Phosphono
 -butane-1,2,4-tricarboxylic acid
 RL: RCT (Reactant)
 (biofouling prevention in cooling water system by ozonization and org.
 phosphonates)

=> d ind 9

L59 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 IC ICM C11D001-37
 CC 46-6 (Surface Active Agents and Detergents)
 Section cross-reference(s): 17, 63
 ST antimicrobial acid cleaning compn; anionic surfactant
 antimicrobial cleaning compn; hygienic cleaning encrusted surface;
 scale removal acid antimicrobial cleaner
 IT Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Me ester, sulfonate, anionic surfactants; in acid
 antimicrobial cleaning compn. for removing lime and other
 deposits)
 IT Dental appliances
 Descaling
 Swimming pools
 (acid antimicrobial cleaning compn. for)
 IT Antimicrobial agents
 Disinfectants
 (acid antimicrobial cleaning compn. for removing lime and
 other deposits)
 IT Carbohydrates, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (acidic; in acid antimicrobial cleaning compn. for removing
 lime and other deposits)
 IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkyl ethers, sulfates and phosphates, anionic surfactants; in acid
 antimicrobial cleaning compn. for removing lime and other
 deposits)
 IT Detergents
 (cleaning compns.; acid antimicrobial cleaning compn. for
 removing lime and other deposits)
 IT Fatty alcohols
 RL: TEM (Technical or engineered material use); USES (Uses)
 (esters, anionic surfactants; in acid antimicrobial cleaning
 compn. for removing lime and other deposits)
 IT Anionic surfactants
 (in acid antimicrobial cleaning compn. for removing lime and
 other deposits)
 IT Ethoxylated alcohols
 RL: TEM (Technical or engineered material use); USES (Uses)
 (phosphates and sulfates, surfactants; in acid antimicrobial
 cleaning compn. for removing lime and other deposits)
 IT Dental appliances
 (toothbrushes; acid antimicrobial cleaning compn. for)
 IT 98-11-3D, Benzenesulfonic acid, alkyl derivs. 5138-18-1D, Sulfosuccinic
 acid, esters with fatty alcs. 7664-93-9D, Sulfuric acid, fatty alc.
 esters 25322-68-3D, alkyl ethers, sulfates and phosphates

RL: TEM (Technical or engineered material use); USES (Uses)
 (anionic surfactants; in acid **antimicrobial** cleaning compn.
 for removing lime and other deposits)

IT 50-21-5, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid, uses
 77-92-9, Citric acid, uses 79-14-1, uses 87-69-4, uses 133-37-9,
 Racemic acid 144-62-7, Ethanedioic acid, uses 5329-14-6, Amidosulfonic
 acid 6303-21-5, Phosphinic acid 6915-15-7 7446-70-0, Aluminum
 chloride, uses 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric
 acid, uses 7681-38-1, Sodium hydrogen sulfate 9004-82-4, Sodium lauryl
 ether sulfate 10043-01-3, Aluminum sulfate 13598-36-2, Phosphonic acid
 37971-36-1, 2-Phosphonobutane-1,2-4-tricarboxylic acid
 189351-08-4

RL: TEM (Technical or engineered material use); USES (Uses)
 (in acid **antimicrobial** cleaning compn. for removing lime and
 other deposits)

IT 151-21-3, Sodium lauryl sulfate, uses 25155-30-0, Sodium
 laurylbenzenesulfonate

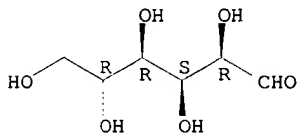
RL: TEM (Technical or engineered material use); USES (Uses)
 (surfactant; in acid **antimicrobial** cleaning compn. for
 removing lime and other deposits)

=> d bib abs hitstr 1

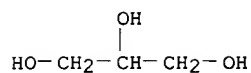
L45 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 2000:911475 HCAPLUS
 DN 134:58194
 TI Leather tanning composition comprising water soluble moderator
 IN Jones, Christopher Raymond; Collins, Gareth Rhys; Talbot,
 Robert Eric
 PA Rhodia Consumer Specialties Limited, UK
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000079011	A1	20001228	WO 2000-EP5471	20000614
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 1999-14139	A	19990618		
	GB 1999-18243	A	19990804		
	GB 1999-18698	A	19990810		
AB	A mixt. of tris(hydroxymethyl)phosphine (THP) or of a THP salt, THP condensate or THP analog with at least one water sol. moderator is used to tan leather. The moderator is selected from metaphosphates and polyhydroxy or polypyrolidyl compds. such as sorbitol, glycerol, trimethylolpropane, pentaerythritol, mannitol, mono and disaccharide sugars, dialdehyde starch, alginates, polyvinyl alc. and polyvinyl pyrrolidone. Thus, 400g of brine pickled pelt rotated for 10 min with water at pH 4.6, added with 3% THP and 3% of glycerol at 35.degree. for 3 h, adjusted to pH 4.2 with sodium bicarbonate (the shrink temp. 64.degree.), and further adjusted to pH 6.5 (giving a shrink temp. of 77.degree.) was tested with sodium selenite and showed even penetration and the product was soft and pliable.				
IT	50-99-7, D-Glucose, uses 56-81-5, Glycerol, uses 57-13-6D, Urea, reaction product with trishydroxymethyl phosphine 57-50-1, Sucrose, uses 63-42-3, Lactose 69-79-4, Maltose 77-99-6, Trimethylolpropane 87-78-5, Mannitol 115-77-5, Pentaerythritol, uses 2767-80-8, Tris(hydroxymethyl)phosphine 9002-89-5, Polyvinyl alcohol 9003-39-8, Poly(vinyl pyrrolidone) 9005-32-7, Alginic acid 9047-50-1, Dialdehyde starch RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (leather tanning compn. comprising water sol. moderator including)				
RN	50-99-7 HCAPLUS				
CN	D-Glucose (8CI, 9CI) (CA INDEX NAME)				

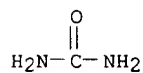
Absolute stereochemistry.



RN 56-81-5 HCAPLUS
 CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)

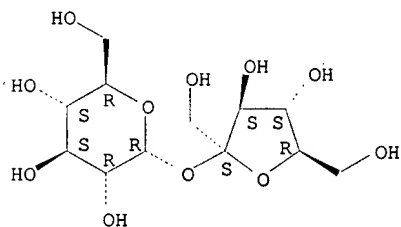


RN 57-13-6 HCAPLUS
CN Urea (8CI, 9CI) (CA INDEX NAME)



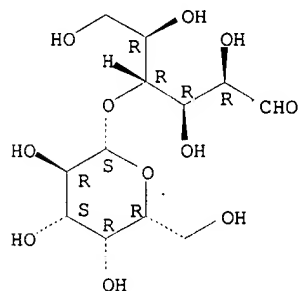
RN 57-50-1 HCAPLUS
CN .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



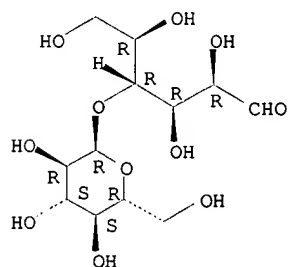
RN 63-42-3 HCAPLUS
CN D-Glucose, 4-O-.beta.-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

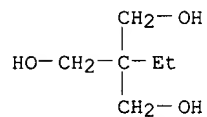


RN 69-79-4 HCAPLUS
CN D-Glucose, 4-O-.alpha.-D-glucopyranosyl- (6CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

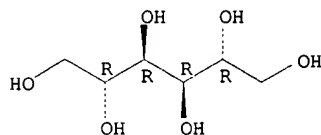


RN 77-99-6 HCAPLUS
 CN 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)

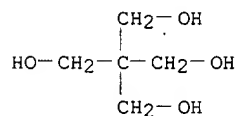


RN 87-78-5 HCAPLUS
 CN Mannitol (8CI, 9CI) (CA INDEX NAME)

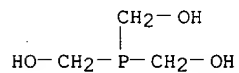
Relative stereochemistry.



RN 115-77-5 HCAPLUS
 CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)



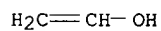
RN 2767-80-8 HCAPLUS
 CN Methanol, phosphinidynetris- (9CI) (CA INDEX NAME)



RN 9002-89-5 HCAPLUS
 CN Ethenol, homopolymer (9CI) (CA INDEX NAME)

CM 1

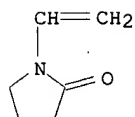
CRN 557-75-5
 CMF C2 H4 O



RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



RN 9005-32-7 HCAPLUS
CN Alginic acid (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9047-50-1 HCAPLUS
CN Starch, 2,3-dialdehydo (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RE.CNT 4

RE

- (1) Albright & Wilson; GB 2055919 A 1981 HCAPLUS
- (2) Chance, L; US 3914106 A 1975 HCAPLUS
- (3) Collins, G; WO 9923261 A 1999 HCAPLUS
- (4) Windus, W; US 2992879 A 1961 HCAPLUS

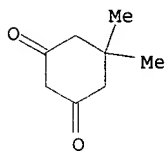
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L45 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 2000:861857 HCAPLUS
 DN 134:30608
 TI Leather tanning with tetrakis(hydroxymethyl)phosphonium salt-dialdehyde condensates
 IN Jones, Christopher Raymond; Collins, Gareth Rhys; Talbot, Robert Eric
 PA Rhodia Consumer Specialties Limited, UK
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

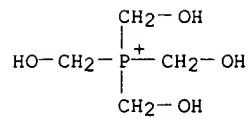
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000073513	A1	20001207	WO 2000-GB2018	20000525
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	GB 1999-12123	A	19990526		
	GB 1999-13580	A	19990612		
AB	A condensate formed by the reaction of a tetrakis(hydroxymethyl)phosphonium salt with a dialdehyde such as glutaraldehyde is effective as a tanning agent for leather.				
IT	111-30-8DP, Glutaraldehyde, reaction products with tetrakis(hydroxymethyl)phosphonium salts 126-81-8DP, 5,5-Dimethyl-1,3-cyclohexanedione, reaction products with tetrakis(hydroxymethyl)phosphonium salts 24655-84-3DP, Tetrakis(hydroxymethyl)phosphonium, salts, reaction products with dialdehydes RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (leather tanning agents)				
RN	111-30-8 HCAPLUS				
CN	Pentanedial (9CI) (CA INDEX NAME)				

OHC-(CH₂)₃-CHO

RN 126-81-8 HCAPLUS
 CN 1,3-Cyclohexanedione, 5,5-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 24655-84-3 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)



RE.CNT 4

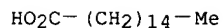
RE

- (1) Albright; EP 0385801 A 1990 HCAPLUS
- (2) Donaldson, D; US 3734684 A 1973 HCAPLUS
- (3) Suedleder GMBH & Co; EP 0808908 A 1997 HCAPLUS
- (4) Windus, W; US 3104151 A 1963 HCAPLUS

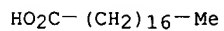
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L45 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 2000:260187 HCAPLUS
 DN 132:283871
 TI Leaching divalent metal salts
 IN Odell, Barbara; Jones, Christopher Raymond; Talbot, Robert
 Eric
 PA Albright & Wilson UK Limited, UK
 SO PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000021892	A1	20000420	WO 1999-GB3352	19991008
	W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	AU 9962174	A1	20000501	AU 1999-62174	19991008
PRAI	GB 1998-22263	A	19981014		
	GB 1998-27177	A	19981211		
	WO 1999-GB3352	W	19991008		
AB	The compns. for leaching deposits of divalent metal salts such as ferrous sulfide comprise: (A) a tetrakis (hydroxymethyl)phosphonium salt; (B) an ammonium salt in a ratio of A:B of (0.01-100):1; and (c) sufficient of an acid, which is substantially unreactive with tetrakis(hydroxymethyl)phosphonium ion or ammonium ion to maintain the pH .ltoreq.4.5. The compns. may be solns. or particulate solids. The method is esp. applicable to ferrous sulfide deposits in oil wells and adjacent strata.				
IT	57-10-3, Hexadecanoic acid, uses 57-11-4, Octadecanoic acid, uses 60-33-3, Linoleic acid, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid, uses 76-03-9, Tri chloro acetic acid, uses 110-15-6, Butanedioic acid, uses 110-16-7, Maleic acid, uses 110-94-1, Glutaric acid 111-16-0, Heptanedioic acid 112-80-1, 9-Octadecenoic acid (9Z)-, uses 123-99-9, Nonanedioic acid, uses 124-04-9, Hexanedioic acid, uses 124-64-1, Tetrakis (hydroxymethyl)phosphonium chloride 505-48-6, Octanedioic acid 540-69-2, Ammonium formate 631-61-8, Ammonium acetate 5940-69-2, Tetrakis (hydroxymethyl)phosphonium bromide 7580-37-2, Tetrakis (hydroxymethyl)phosphonium acetate 7646-88-0, Ammonium tri chloro acetate 7647-01-0, Hydrochloric acid, uses 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses 7782-99-2, Sulfurous acid, uses 7783-20-2, Ammonium sulfate, uses 10035-10-6, Hydrogen bromide, uses 10043-35-3, Boric acid, uses 10196-04-0, Ammonium sulfite 11128-98-6, Ammonium borate 12124-97-9, Ammonium bromide 12125-02-9, Ammonium chloride, uses 13446-12-3 13598-36-2, Phosphorous acid 14798-03-9, Ammonium, uses 22031-17-0, Tetrakis (hydroxymethyl)phosphonium phosphate 24655-84-3 25151-36-4, Tetrakis (hydroxymethyl)phosphonium formate 55566-30-8, Tetrakis (hydroxymethyl)phosphonium sulfate 110499-12-2 263747-72-4, uses 263747-73-5 263747-74-6 RL: NUU (Nonbiological use, unclassified); USES (Uses) (leaching divalent metal salts such as ferrous sulfide from wells)				
RN	57-10-3 HCAPLUS				
CN	Hexadecanoic acid (9CI) (CA INDEX NAME)				

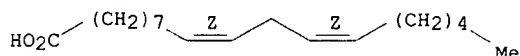


RN 57-11-4 HCAPLUS
CN Octadecanoic acid (9CI) (CA INDEX NAME)

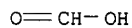


RN 60-33-3 HCAPLUS
CN 9,12-Octadecadienoic acid (9Z,12Z)- (9CI) (CA INDEX NAME)

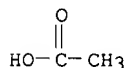
Double bond geometry as shown.



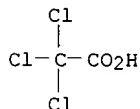
RN 64-18-6 HCAPLUS
CN Formic acid (7CI, 8CI, 9CI) (CA INDEX NAME)



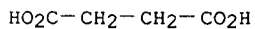
RN 64-19-7 HCAPLUS
CN Acetic acid (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 76-03-9 HCAPLUS
CN Acetic acid, trichloro- (8CI, 9CI) (CA INDEX NAME)

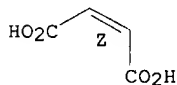


RN 110-15-6 HCAPLUS
CN Butanedioic acid (9CI) (CA INDEX NAME)

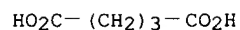


RN 110-16-7 HCAPLUS
CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

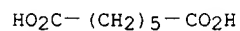
Double bond geometry as shown.



RN 110-94-1 HCAPLUS
CN Pentanedioic acid (9CI) (CA INDEX NAME)



RN 111-16-0 HCAPLUS
CN Heptanedioic acid (9CI) (CA INDEX NAME)

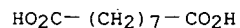


RN 112-80-1 HCAPLUS
CN 9-Octadecenoic acid (9Z)- (9CI) (CA INDEX NAME)

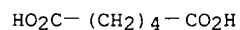
Double bond geometry as shown.



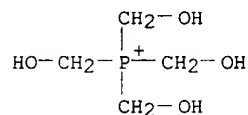
RN 123-99-9 HCAPLUS
CN Nonanedioic acid (9CI) (CA INDEX NAME)



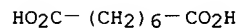
RN 124-04-9 HCAPLUS
CN Hexanedioic acid (9CI) (CA INDEX NAME)



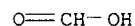
RN 124-64-1 HCAPLUS
CN Phosphonium, tetrakis(hydroxymethyl)-, chloride (8CI, 9CI) (CA INDEX NAME)



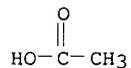
RN 505-48-6 HCAPLUS
CN Octanedioic acid (6CI, 9CI) (CA INDEX NAME)



RN 540-69-2 HCAPLUS
CN Formic acid, ammonium salt (8CI, 9CI) (CA INDEX NAME)

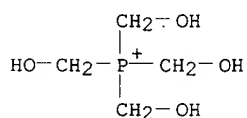


RN 631-61-8 HCAPLUS
 CN Acetic acid, ammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

RN 5940-69-2 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, bromide (8CI, 9CI) (CA INDEX NAME)

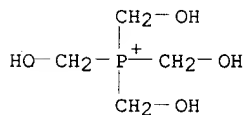


● Br⁻

RN 7580-37-2 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, acetate (salt) (8CI, 9CI) (CA INDEX NAME)

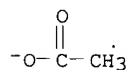
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CRN 24655-84-3
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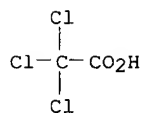


CM 2

CRN 71-50-1
 CMF C2 H3 O2



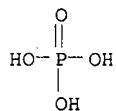
RN 7646-88-0 HCAPLUS
 CN Acetic acid, trichloro-, ammonium salt (8CI, 9CI) (CA INDEX NAME)

● NH₃

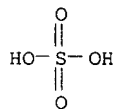
RN 7647-01-0 HCAPLUS
 CN Hydrochloric acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

HCl

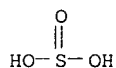
RN 7664-38-2 HCAPLUS
 CN Phosphoric acid (7CI, 8CI, 9CI) (CA INDEX NAME)



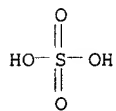
RN 7664-93-9 HCAPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



RN 7782-99-2 HCAPLUS
 CN Sulfurous acid (8CI, 9CI) (CA INDEX NAME)



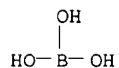
RN 7783-20-2 HCAPLUS
 CN Sulfuric acid diammonium salt (8CI, 9CI) (CA INDEX NAME)

● 2 NH₃

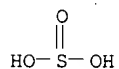
RN 10035-10-6 HCAPLUS
 CN Hydrobromic acid (8CI, 9CI) (CA INDEX NAME)

HBr

RN 10043-35-3 HCAPLUS
 CN Boric acid (H3BO3) (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 10196-04-0 HCAPLUS
 CN Sulfurous acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)

●2 NH₃

RN 11128-98-6 HCAPLUS
 CN Boric acid, ammonium salt (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 12124-97-9 HCAPLUS
 CN Ammonium bromide ((NH₄)Br) (9CI) (CA INDEX NAME)

Br-NH₄

RN 12125-02-9 HCAPLUS
 CN Ammonium chloride ((NH₄)Cl) (9CI) (CA INDEX NAME)

Cl-NH₄

RN 13446-12-3 HCAPLUS
 CN Phosphonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

● NH₃

*** FRAGMENT DIAGRAM IS INCOMPLETE ***

RN 13598-36-2 HCAPLUS
 CN Phosphonic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

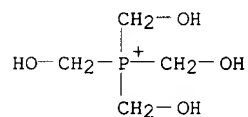
RN 14798-03-9 HCAPLUS
 CN Ammonium (8CI, 9CI) (CA INDEX NAME)

NH₄⁺

RN 22031-17-0 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, phosphate (3:1) (salt) (8CI, 9CI)
 (CA INDEX NAME)

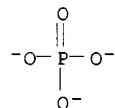
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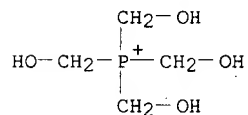


CM 2

CRN 14265-44-2
 CMF O4 P



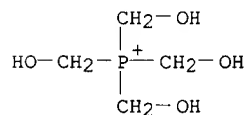
RN 24655-84-3 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)



RN 25151-36-4 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, formate (salt) (8CI, 9CI) (CA INDEX NAME)

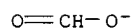
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CM 2

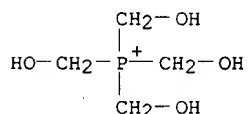
CRN 71-47-6
 CMF C H O2



RN 55566-30-8 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1) (salt) (9CI) (CA INDEX NAME)

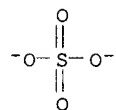
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CRN 24655-84-3
 CMF C4 H12 O4 P



CM 2

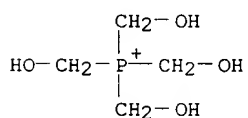
CRN 14808-79-8
 CMF O4 S



RN 110499-12-2 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, phosphite (3:1) (salt) (9CI) (CA INDEX NAME)

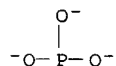
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CM 2

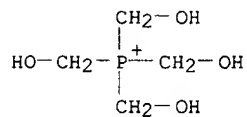
CRN 14901-63-4
 CMF O3 P



RN 263747-72-4 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, salt with trichloroacetic acid (1:1) (9CI) (CA INDEX NAME)

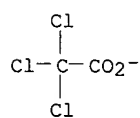
CM 1

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CMF C4 H12 O4 P



CM 2

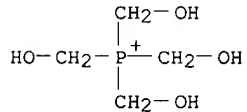
CRN 14357-05-2
CMF C2 C13 O2



RN 263747-73-5 HCAPLUS
CN Phosphonium, tetrakis(hydroxymethyl)-, salt with boric acid (H3BO3) (3:1) (9CI) (CA INDEX NAME)

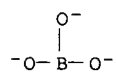
CM 1

CRN 24655-84-3
CMF C4 H12 O4 P



CM 2

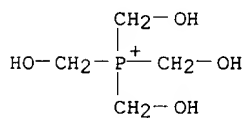
CRN 14213-97-9
CMF B O3



RN 263747-74-6 HCAPLUS
CN Phosphonium, tetrakis(hydroxymethyl)-, sulfite (2:1) (9CI) (CA INDEX NAME)

CM 1

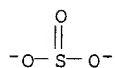
CRN 24655-84-3
CMF C4 H12 O4 P



CM 2

CRN 14265-45-3

CMF 03 S



IT 1317-37-9, Ferrous sulfide

RL: REM (Removal or disposal); PROC (Process)

(leaching divalent metal salts such as ferrous sulfide from wells)

RN 1317-37-9 HCAPLUS

CN Iron sulfide (FeS) (8CI, 9CI) (CA INDEX NAME)



RE.CNT 6

RE

(1) Albright & Wilson; GB 2145708 A 1985 HCAPLUS

(2) Albright & Wilson; GB 2257043 A 1993 HCAPLUS

(3) Albright & Wilson; GB 2271787 A 1994 HCAPLUS

(4) Albright & Wilson; EP 0709518 A 1996 HCAPLUS

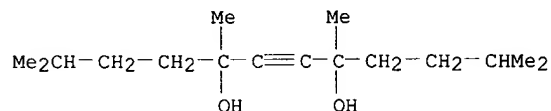
(6) Hooker Chemical; GB 1251032 A 1971 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

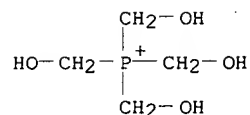
=> d bib abs hitstr 4

L45 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:613578 HCAPLUS
 DN 131:210409
 TI Biocidal compositions of tetrakis (hydroxymethyl)phosphonium salts with an antifoaming agent
 IN Jones, Christopher Raymond; Talbot, Robert Eric
 PA Albright & Wilson UK Limited, UK
 SO PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9946989	A1	19990923	WO 1999-EP1813	19990318
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9934151	A1	19991011	AU 1999-34151	19990318
EP 1063889	A1	20010103	EP 1999-915661	19990318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI GB 1998-5744	A	19980319		
WO 1999-EP1813	W	19990318		
AB	Foaming of synergistic biocidal mixts. of tetrakis(hydroxymethyl)phosphonium salts and surfactants is controlled by a C10-20 acetylenic diol.			
IT	68227-33-8, 2,5,8,11-Tetramethyldodeca-6-yne-5,8-diol			
RL:	BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)			
	(Surfynol DF 110D; antifoaming agent in biocidal compns. contg. THPS and a surfactant)			
RN	68227-33-8 HCAPLUS			
CN	6-Dodecyne-5,8-diol, 2,5,8,11-tetramethyl- (9CI) (CA INDEX NAME)			

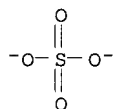


IT 55566-30-8, THPS
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (biocidal compns. contg. THPS, a surfactant and an antifoaming agent)
 RN 55566-30-8 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1) (salt) (9CI) (CA INDEX NAME)
 CM 1
 CRN 24655-84-3
 CMF C4 H12 O4 P



CM 2

CRN 14808-79-8
CMF O4 S



IT 101-84-8D, Diphenyl oxide, sulfonated, mono/dialkylated
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(surfactant in biocidal compns. contg. THPS and an antifoaming agent)
RN 101-84-8 HCAPLUS
CN Benzene, 1,1'-oxybis- (9CI) (CA INDEX NAME)

Ph-O-Ph

RE.CNT 4
RE

- (1) Albright; GB 2178960 A 1987 HCAPLUS
- (2) Baker Chem Co J T; EP 0007112 A 1980 HCAPLUS
- (3) Mobil Oil Corp; EP 0435444 A 1991 HCAPLUS
- (4) Monsanto Co; EP 0526443 A 1993 HCAPLUS

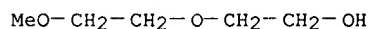
=> d bib abs hitstr 5

L45 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:460333 HCAPLUS
 DN 131:84332
 TI Synergistic biocidal compositions
 IN Jones, Christopher Raymond; Talbot, Robert Eric
 PA Albright and Wilson UK Limited, UK
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

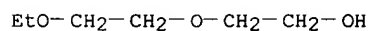
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9933345	A1	19990708	WO 1998-EP8394	19981221
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9922753	A1	19990719	AU 1999-22753	19981221
	EP 1041885	A1	20001011	EP 1998-966392	19981221
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	NO 2000003267	A	20000802	NO 2000-3267	20000622
PRAI	GB 1997-27006	A	19971223		
	GB 1998-5407	A	19980314		
	GB 1998-5746	A	19980319		
	GB 1998-11778	A	19980603		
	GB 1998-20255	A	19980918		
	WO 1998-EP8394	W	19981221		
AB	A synergistic biocide comprises a tris(hydroxymethyl)phosphine or a tetrakis(hydroxymethyl)phosphonium salt and at least one non-surfactant biopenetrant, such as a polymer or copolymer having a plurality of quaternary ammonium groups, a hydrotrope or a syntan, together optionally with a surfactant. Thus, an aq. compn. comprises tetrakis(hydroxymethyl)phosphonium salt and poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride].				
IT	71-43-2D, Benzene, alkyl derivs., mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 111-77-3D, Diethyleneglycol methyl ether, mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 111-90-0D, Diethyleneglycol ethyl ether, mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 6881-94-3D, mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 31512-74-0D, Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride], mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 50852-11-4D, Naphthalene sulfonate, alkyl derivs., mixts. tris(hydroxymethyl)phosphine or tetrakis(hydroxymethyl)phosphonium salts 229314-68-5 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (synergistic biocidal compns.)				
RN	71-43-2 HCAPLUS				
CN	Benzene (8CI, 9CI) (CA INDEX NAME)				



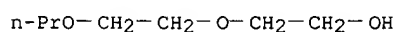
RN 111-77-3 HCAPLUS
 CN Ethanol, 2-(2-methoxyethoxy)- (6CI, 8CI, 9CI) (CA INDEX NAME)



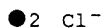
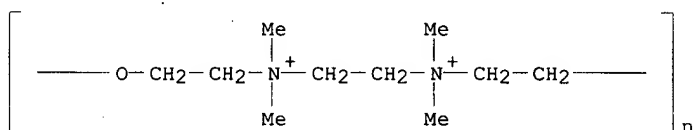
RN 111-90-0 HCAPLUS
 CN Ethanol, 2-(2-ethoxyethoxy)- (8CI, 9CI) (CA INDEX NAME)



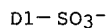
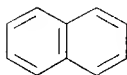
RN 6881-94-3 HCAPLUS
 CN Ethanol, 2-(2-propoxyethoxy)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 31512-74-0 HCAPLUS
 CN Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride] (9CI) (CA INDEX NAME)



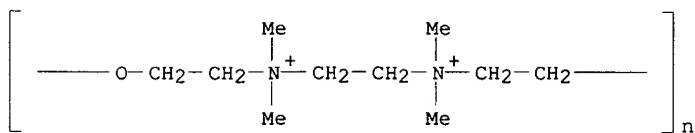
RN 50852-11-4 HCAPLUS
 CN Naphthalenesulfonic acid, ion(1-) (9CI) (CA INDEX NAME)



RN 229314-68-5 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1) (salt), mixt. with poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride] (9CI) (CA INDEX NAME)

CM 1

CRN 31512-74-0
 CMF (C10 H24 N2 O)n . 2 Cl
 CCI PMS

● 2 Cl⁻

CM 2

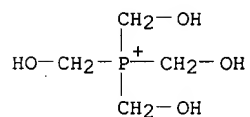
CRN 55566-30-8

CMF C4 H12 O4 P . 1/2 O4 S

CM 3

CRN 24655-84-3

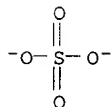
CMF C4 H12 O4 P



CM 4

CRN 14808-79-8

CMF O4 S



RE.CNT 5

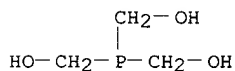
RE

- (1) Albright & Wilson; GB 2178960 A 1987 HCAPLUS
- (2) Albright & Wilson; EP 0385676 A 1990 HCAPLUS
- (3) Albright & Wilson; GB 2257043 A 1993 HCAPLUS
- (4) Fabricom Air Conditioning Sa; WO 9104668 A 1991 HCAPLUS
- (5) Frederick, S; US 3644083 A 1972 HCAPLUS

=> d bib abs hitstr 6

L45 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:311328 HCAPLUS
 DN 130:339678
 TI Tanning leather with tris(hydroxymethyl)phosphine
 IN Collins, Gareth Rhys; Jones, Christopher Raymond; Talbot,
 Robert Eric; Williams, Jane; Zakikhani, Mohsen
 PA Albright & Wilson UK Limited, UK
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9923261	A1	19990514	WO 1998-EP6837	19981028
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9913367	A1	19990524	AU 1999-13367	19981028
BR 9813033	A	20000815	BR 1998-13033	19981028
EP 1027460	A1	20000816	EP 1998-956886	19981028
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI GB 1997-22806	A	19971030		
GB 1998-20254	A	19980918		
GB 1998-21084	A	19980930		
WO 1998-EP6837	W	19981028		
AB Leather is tanned by crosslinking collagen with tris(hydroxymethyl)phosphine (THP) or a condensate of a tetrakis(hydroxymethyl)phosphonium salt with an amide, urea or amine in a main tannage or retannage. THP alone or with the addn. of a syntan results in a particularly heat stable white leather.				
IT 2767-80-8, Tris(hydroxymethyl)phosphine 68850-64-6, Proban CC 224310-22-9, Proban ST RL: NUU (Nonbiological use, unclassified); RCT (Reactant); USES (Uses) (for tanning leather)				
RN 2767-80-8 HCAPLUS				
CN Methanol, phosphinidynetris- (9CI) (CA INDEX NAME)				



RN 68850-64-6 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, chloride, polymer with ammonia and
 urea (9CI) (CA INDEX NAME)

CM 1

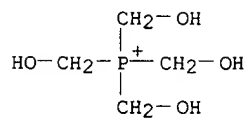
CRN 7664-41-7
 CMF H3 N

NH₃

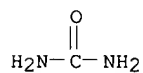
CM 2

CRN 124-64-1

CMF C4 H12 O4 P . Cl

● Cl⁻

CM 3

CRN 57-13-6
CMF C H4 N2 ORN 224310-22-9 HCAPLUS
CN Proban ST (9CI) (CA INDEX NAME)

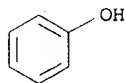
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IT 9003-35-4, Neosyn CPP 48 114921-40-3, Neosyn RW
224310-07-0, Neosyn DSF 2RL: NUU (Nonbiological use, unclassified); USES (Uses)
(syntan; for tanning leather)

RN 9003-35-4 HCAPLUS

CN Phenol, polymer with formaldehyde (9CI) (CA INDEX NAME)

CM 1

CRN 108-95-2
CMF C6 H6 O

CM 2

CRN 50-00-0
CMF C H2 ORN 114921-40-3 HCAPLUS
CN Neosyn RW (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 224310-07-0 HCAPLUS

CN Neosyn DSF 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RE.CNT 4

RE

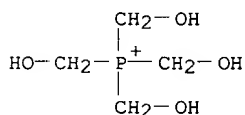
HUI 09/582,152

- (1) Blc The Leather Technology Cen; GB 2287953 A 1995 HCAPLUS
- (2) Ciba Geigy Ag; GB 2314342 A 1997 HCAPLUS
- (3) Suedleder Gmbh & Co; EP 0808908 A 1997 HCAPLUS
- (4) Wallace, W; US 3104151 A 1963 HCAPLUS

=> d bib abs hitstr 7

L45 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:244519 HCAPLUS
 DN 130:248347
 TI Stable microbicidal phosphonium salt composition
 IN Fidoe, Stephen David; Imrie, Christopher David; Jones, Christopher
 Raymond; Talbot, Robert Eric
 PA Albright & Wilson UK Limited, UK
 SO PCT Int. Appl., 11 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

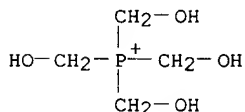
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PI	WO 9917614	A1	19990415	WO 1998-EP6290	19981002
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	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9911495	A1	19990427	AU 1999-11495	19981002
	EP 1024700	A1	20000809	EP 1998-954327	19981002
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRAI	GB 1997-21021	A	19971004		
	WO 1998-EP6290	W	19981002		
AB	A solid compn. in powdery, granular, or tabletted form comprises solid acid substrate, such as adipic acid, coated with a tetrakis(hydroxymethyl)phosphonim salt. One application is microbicidal treatment of cooling water.				
IT	24655-84-3D, salts 55566-30-8 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (stable microbicidal phosphonium salt compn.)				
RN	24655-84-3 HCAPLUS				
CN	Phosphonium, tetrakis(hydroxymethyl)- (8CI, 9CI) (CA INDEX NAME)				



RN 55566-30-8 HCAPLUS
 CN Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1) (salt) (9CI) (CA INDEX NAME)

CM 1

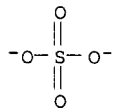
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 CMF C4 H12 O4 P



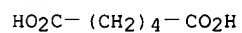
CM 2

HUI 09/582,152

CRN 14808-79-8
CMF 04 S



IT 124-04-9, Adipic acid, uses
RL: MOA (Modifier or additive use); USES (Uses)
(stable microbicidal phosphonium salt compn. contg.)
RN 124-04-9 HCAPLUS
CN Hexanedioic acid (9CI) (CA INDEX NAME)

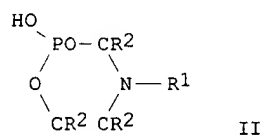
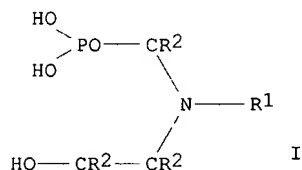


RE.CNT 1
RE
(1) Fujimasu, J; JP 07292152 A 1995 HCAPLUS

=> d bib abs hitstr 8

L45 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1997:522539 HCAPLUS
 DN 127:140157
 TI Scale inhibition in oil wells using alkanolamine methylene phosphonate
 IN Jones, Christopher Raymond; Talbot, Robert Eric
 PA Albright & Wilson UK Limited, UK
 SO Brit. UK Pat. Appl., 16 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

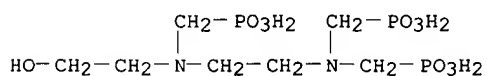
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2306465	A1	19970507	GB 1996-21852	19961021
PRAI	GB 1995-21509		19951020		
OS	MARPAT 127:140157				
GI					



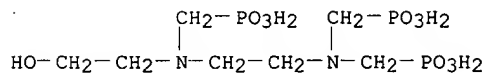
AB A method of inhibiting or preventing scale formation, e. g., barium scale, comprises adding a scale inhibiting amt. of an agent consisting of a methylene phosphonate deriv. of an alkanolamine. Preferably only a threshold amt., ie less than stoichiometric amt., of the agent is added, the threshold amt. being sufficient to inhibit scale. The method may be used to prevent scale formation in an oil well where brine is injected into an aquifer to form a soln. contg. at least 200 mg of alk. metal per L, and the agent is injected at the lower end of the aquifer. Preferably the scale inhibitor contains .gtoreq.1 phosphonate compd. of formula I or II, in which R = -H, -Me, -Et, -OMe; R1 = -OMe or -
 [(CR2)nNCR2PO3H2]mCR2PO3H2; n = 2 or 3, and m = 0-10.

IT 32685-03-3 32685-03-3D, alkali metal salts
 110685-63-7 129828-37-1 129828-37-1D, alkali metal salts 193071-17-9 193071-17-9D, alkali metal salts 193071-18-0 193071-19-1
 RL: MOA (Modifier or additive use); USES (Uses)
 (scale inhibition in oil wells using alkanolamine methylene phosphonate)

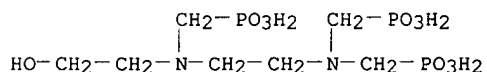
RN 32685-03-3 HCAPLUS
 CN Phosphonic acid, [[[2-[(2-hydroxyethyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis- (9CI) (CA INDEX NAME)



RN 32685-03-3 HCAPLUS
 CN Phosphonic acid, [[[2-[(2-hydroxyethyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis- (9CI) (CA INDEX NAME)

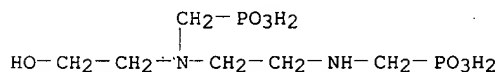


RN 110685-63-7 HCAPLUS
 CN Phosphonic acid, [[[2-[(2-hydroxyethyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis-, sodium salt (9CI) (CA INDEX NAME)

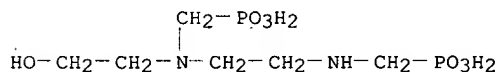


●x Na

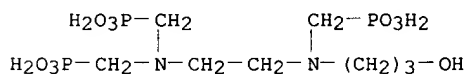
RN 129828-37-1 HCAPLUS
 CN Phosphonic acid, [[[2-(hydroxyethyl)[2-[(phosphonomethyl)amino]ethyl]amino]methyl]- (9CI) (CA INDEX NAME)



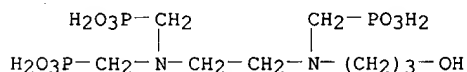
RN 129828-37-1 HCAPLUS
 CN Phosphonic acid, [[[2-(hydroxyethyl)[2-[(phosphonomethyl)amino]ethyl]amino]methyl]- (9CI) (CA INDEX NAME)



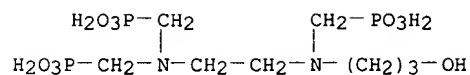
RN 193071-17-9 HCAPLUS
 CN Phosphonic acid, [[[2-[(3-hydroxypropyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis- (9CI) (CA INDEX NAME)



RN 193071-17-9 HCAPLUS
 CN Phosphonic acid, [[[2-[(3-hydroxypropyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis- (9CI) (CA INDEX NAME)

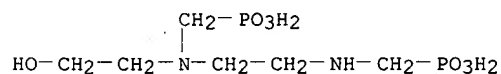


RN 193071-18-0 HCAPLUS
 CN Phosphonic acid, [[[2-[(3-hydroxypropyl)(phosphonomethyl)amino]ethyl]imino]bis(methylene)]bis-, sodium salt (9CI) (CA INDEX NAME)



●x Na

RN 193071-19-1 HCAPLUS
CN Phosphonic acid, [[[2-hydroxyethyl][2-[(phosphonomethyl)amino]ethyl]amino]methyl]-, sodium salt (9CI) (CA INDEX NAME)



●x Na

IT 7440-39-3, Barium, processes
RL: REM (Removal or disposal); PROC (Process)
(scale inhibition in oil wells using alkanolamine methylene phosphonate)
RN 7440-39-3 HCAPLUS
CN Barium (8CI, 9CI) (CA INDEX NAME)

Ba

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L45 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2001 ACS
 AN 1997:425041 HCAPLUS
 DN 127:36909
 TI Drilling fluids
 IN Bryan, Edward; Grover, Boyd William; Jones, Christopher Raymond;
 Talbot, Robert Eric
 PA Albright & Wilson Limited, UK
 SO Brit. UK Pat. Appl., 24 pp.
 CODEN: BAXXD
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2304754	A1	19970326	GB 1995-17371	19950824
AB	The invention relates to the use of aq. surfactant compn. as, or in drilling fluids, including spacer fluids, packing fluids, or completion fluids, wherein the compns. comprise (i) <5 wt.% of polymeric compds., (ii) optionally, dissolved electrolyte, (iii) <10 wt.% of surfactant, the surfactant being present as an aq. structured surfactant, which is a soln. contg. surfactant micelles or interspersed with a spherulitic surfactant, in a quantity sufficient to inhibit disintegration of shale and to maintain the rock cuttings in suspension under normal drilling conditions, and (vi) 0-10 wt.% of a weighting agent, all wts. being based on total wt. of the compn. A method of improving the drilling properties of conventional unweighted water-based drilling fluids comprising one or more polymeric compds. and optionally dissolved electrolyte is also provided. Also drilling fluid compns. are provided.				
IT	7447-40-7, Potassium chloride, uses 9000-01-5, Acacia gum 9000-30-0, Guar gum 9004-32-4, Sodium carboxymethyl cellulose 11138-66-2, Xanthan gum RL: NUU (Nonbiological use, unclassified); USES (Uses) (drilling fluids with improved fluid-loss control properties contg. surfactants and)				
RN	7447-40-7 HCAPLUS				
CN	Potassium chloride (KCl) (9CI) (CA INDEX NAME)				

Cl-K

RN 9000-01-5 HCAPLUS
 CN Gum arabic (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9000-30-0 HCAPLUS
 CN Guar gum (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9004-32-4 HCAPLUS
 CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

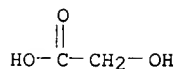
CM 1

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1
 CMF C2 H4 O3

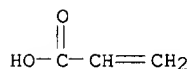


RN 11138-66-2 HCAPLUS
CN Xanthan gum (9CI) (CA INDEX NAME)

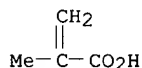
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 79-10-7D, 2-Propenoic acid, esters, polymers 79-41-4D,
esters, polymers 110-16-7D, 2-Butenedioic acid (2)-, derivs.,
polymers
RL: NUU (Nonbiological use, unclassified); USES (Uses)
(drilling fluids with improved fluid-loss control properties contg.
surfactants and polymeric compds.)

RN 79-10-7 HCAPLUS
CN 2-Propenoic acid (9CI) (CA INDEX NAME)

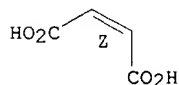


RN 79-41-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)

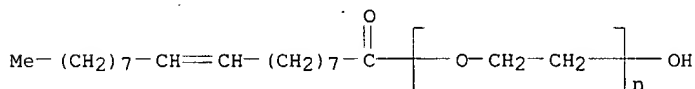


RN 110-16-7 HCAPLUS
CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 9004-96-0, Empilan BQ 100
 RL: NUU (Nonbiological use, unclassified); USES (Uses)
 (surfactant; drilling fluids with improved fluid-loss control
 properties contg.)
 RN 9004-96-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-
 hydroxy-(9CI) (CA INDEX NAME)



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IT  190914-10-4, Empilan KB 4
    RL: NUU (Nonbiological use, unclassified); USES (Uses)
        (surfactant; drilling fluids with improved fluid-loss control
        properties contg. surfactants and polymeric compds.)
RN  190914-10-4 HCAPLUS
CN  Empilan KB 4 (9CI) . (CA INDEX NAME)

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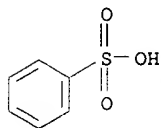
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., salts
RL: NUU (Nonbiological use, unclassified); USES (Uses)

(surfactants; drilling fluids with improved fluid-loss control properties contg. surfactants and polymeric compds.)

RN 98-11-3 HCAPLUS

CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



IT 1317-60-8, Haematite, uses 13462-86-7, Barite

RL: MOA (Modifier or additive use); NUU (Nonbiological use, unclassified);

USES (Uses)

(weighting agent; drilling fluids with improved fluid-loss control properties contg. surfactants and polymeric compds.)

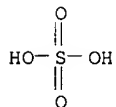
RN 1317-60-8 HCAPLUS

CN Hematite (Fe2O3) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	3	17778-80-2
Fe	2	7439-89-6

RN 13462-86-7 HCAPLUS

CN Barite (Ba(SO4)) (9CI) (CA INDEX NAME)



● Ba